Dive No.	K 214			Date		2001/09/11
PI	Name			Affiliation		
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				Earthquake Research Institute,		
English	Takeshi Hanyu			University of Tokyo		
Specialty	Geochemistry					
Purpose	To investigate the vertical structure of southern flank of the Hana Ridge.					
Area	Off shore of Maui Island, Hawaii					
Site	Southern flank of the Hana Ridge					
	Latitude	Longitu	de	Time		Depth
Landing	20°28.14 ' N	155°16.	13' W	W 9:31		4439m
Leaving	20°30.24 ' N	155°15.	96' W 14:38			3127m
Dive Distance		3950m	Deepest po	Deepest point		4439m
Dive summary	The dive track was designed to investigate vertical sequence and a mound-like structure on the southern flank of the Hana Ridge. We landed at the bottom of the ridge flank to find sheet lavas. We ascended to the lower part of the ridge, and pillow lava outcrops and sediment-covered slopes appeared repeatedly from -4250m to -3400m. The rocks collected from each lava flow demonstrate that picrites and olivine basalts dominate below and above the depth of -4200m, respectively. After passing over a very gentle slope on the bench structure of the ridge, we observed a mound-like structure and found central sheet lavas and marginal pillow lavas on this mound. This therefore would be a small vent of a flank eruption. We encountered a steep cliff at the uppermost part of the ridge. No in-situ pillow basalts were recognized, rather the slope was covered by rounded blocks, suggesting that the uppermost part of the ridge is formed by erosional debris from subaerially erupted lavas that moved down on the submarine ridge.					
Payload	Nine sample baskets, four push cores					
Visual Records	VTR(Broadcasting grade), VTR(centre, right & left), still camera					
Sample	Rock: 23 samples, Push core: 4					
Video highlights	(1) 10:24-10:28 (2) 12:37-13:01 (3) 14:12-14:20					
Key words	Hana ridge, Haleakala, pillow lavas, picrites					